Translation





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
PH-1955-PCT	FOR FURTHER ACT	ION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/JP2003/015631	05 December 2003		06 December 2002 (06.12.2002)		
International Patent Classification (IPC) or na	_	•	00 December 2002 (06.12.2002)		
C07D 265/36, 413/12, A61K 31/	538, A61P 7/02, 9/00, 9	/10	,		
Applicant					
TORAY INDUSTRIES, INC.					
1. This report is the international preliminary examination report octablished by the control of					
Authority under Article 35 and transi	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of	3 sheets, inc	luding this cover s	heet		
This report is also accompanied by A	NNEXES, comprising:				
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contains					
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
Containing a sequence light and number of electronic carrier(s))					
readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to povelty, inventive step as industrial and include the					
citations and explanations supporting such statement Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of sub-vision of the desired					
·		Date of completion of this report			
01 March 2004 (01.03.2004)		11 Nov	ember 2004 (11.11.2004)		
Name and mailing address of the IPEA/JP		horized officer			
Paggimila No.			,		
Facsimile No.		phone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. 1	Basis of the report
1. With re	egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
[international preliminary examination (under Rules 55.2 and/or 55.3)
ļ	
and are	egard to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" the international application as originally filed/furnished
	ne description:
	ages
· ·	ages*, as originally filed/furnished
•	ages* received by this Authority on
┌┐ "	ne claims:
-	ages
	, as originally filed/furnished
_	, as alleficed (together with any statement) under Article 19
	received by this Authority on
	received by this Authority on
	e drawings:
=	ages, as originally filed/furnished
_	lectived by this Authority on
	received by this Authority on
a:	sequence listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing.
3. Th	the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
	is report has been established as if (some of) the amendments annexed to this report and listed below had not been ade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box ule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
* If item 4	applies, some or all of those sheets may be marked "superseded."

Statement			
Novelty (N)	Claims	1-16	YE:
	Claims		ио
Inventive step (IS)	Claims	1-16	YE
	Claims		МО
Industrial applicability (IA)	Claims	1-16	YE
	Claims		NO

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

- 2. Citations and explanations (Rule 70.7)
- 1. EP, 1028113, A1 (Toray Industries, Inc.), 16 August, 2000
- 2. US, 2001/0003747, A1 (Adir et Compagnie), 14 June, 2001

Claims 1-16

Box No. V

The inventions described in claims 1-16 appear to be novel and to involve an inventive step over documents 1 and 2.

Document 1 describes a compound having platelet aggregation inhibitory action that is represented by General Formula (I). The aforementioned General Formula (I) includes the compound of this application; however, document 1 does not specifically describe a compound wherein A⁴ is - NR⁵CO-. Because the compound of this application has such a structure, it has particularly outstanding platelet aggregation inhibitory action as compared to the compound specifically described in document 1 (see example 3 of this application).

Document 2 describes benzomorpholine derivatives, which are identical in structure except for R⁴; however, it neither describes nor suggests introducing R⁴, nor does it describe platelet aggregation inhibitory action.

Furthermore, this examination finds that arriving at the compound of this application based on the inventions of documents 1 and 2 would not have been obvious to a party skilled in the art.